

BIKEMP3 GL2WAY Communication System Installation Guide

Before You Begin

Please be confident that you have the necessary skills to install this product, installation is just a matter of locating and using connectors already present on your motorcycle this will require the removal and reinstallation of trim panels and other parts, The rider's safety depends upon the correct installation of this product. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, or you are in doubt about any aspect of this installation please consult a Honda trained technician.

You undertake the installation of this product at your own risk BikeMP3.com, GL2WAY.com or the owners thereof cannot be held responsible for any fatality, injury, loss or damage however caused during the installation of this product.

Not To Be Used As A Method Of Primary Communication

This system is designed for leisure purposes only and is not suitable for use as a primary means of communication where a risk to life may exist, BikeMP3 or it's owners do not offer or imply any performance guarantee with regard to this system, you should always carry an separate primary means of communication with you such as a cell phone for use in emergencies.

The system is designed to operate only with the engine of the motorcycle running, optimal performance cannot be guaranteed when used just on the motorcycle battery as the system may not receive sufficient power to operate.

Electrical Safety Notice

Working around electricity is dangerous please familiarize yourself with the manufacturers instructions for making your vehicles electrical system safe to work on, at minimum you should disconnect your battery and all other power sources before you begin, Please consult your motorcycle owners manual before you begin.

It is possible to overload your motorcycle's charging system by adding too many electrical accessories. If your combined electrical accessories operating at any one time consume more electrical current than your vehicle's charging system can supply, the electrical consumption may discharge the battery and cause damage to the vehicle electrical system. If in doubt consult a Honda dealer.

Adding this system may require as much as 2 amps of additional current from your electrical system, be certain not to exceed the maximum amperage rating of the fuse or circuit breaker protecting the circuit being modified. Exceeding the maximum amperage can lead to electrical failures, which could result in death or serious injury.

Airbag Safety Notice

Airbags can cause serious injury or even fatalities, Never attempt to work on a vehicle equipped with an airbag without first conducting all the necessary steps to safely work near the airbag system as detailed by your vehicle manufacturer.

If your motorcycle is fitted with an airbag you should not attempt this installation without first consulting a trained Honda service professional who can confirm if your airbag has been made safe.

BikeMP3 INC, BikeMP3.com, GL2WAY.com or the owners thereof cannot be held responsible for any fatality, injury or damaged caused by airbag deployments during the installation of our products however caused.

Thank you for purchasing this product which is part of our GL2WAY range every care has been taken to ensure this product will give years of reliable service, However should you have any problems with the product or installation, service questions please contact us at.....

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First Steps

IT IS ESSENTIAL THAT YOU DO NOT RUN ANY CB ANTENNA WIRES IN CLOSE PROXIMITY TO ANY OF THE HEADSET CABLES

Non-Airbag Models

Installation of the communication system requires that you access the 13 pin CB connector located under the right side of the radio (Fig 1) and a 3 pin power connector located under the passenger seat (Fig 2) also if you are installing the Firestik splitter antenna system you will need to access the radio antenna connection

Please follow the manufacturers instructions for removal of the seat and the top shelter particular to your model, in many cases the top shelter need not be completely removed and access to the CB connector can be made from the right hand side once the top shelter fixings have been removed.

Airbag Models

Installation of the communication system requires that you access the same 13 pin CB connector however in the case of airbag equipped models this is located below the right side fairing air vent (which must be removed) to the rear of the radiator and again the same 3 pin power connector located under the passenger seat (Fig 2)

Prepare the trunk

To allow the routing of the system cabling you will need to drill a 1" hole in the base of the rear trunk at the factory marked location (Fig 3) we recommend that you remove the trunk to allow room to do this although it is possible to do it without removal but care must be taken to avoid damage to the surrounding area. If you want to remove the trunk to conduct this step please refer to the manufacturers instructions on how to do this, test fit the supplied grommet to confirm the correct hole size.

The GL2WAY unit installation

The unit has several connections depending on the configuration you purchased, however all units will have the main system cable with the 13 pin CB connector and the 3 pin power connections this connects to the 16 way system connector on the GL2WAY unit (Fig 4)

1. Starting from the trunk route these 2 connectors through the hole that you drilled in the previous step, at this stage if you are running a cable for a GPS you should route it through the same hole.
2. Route the 13 pin connector to the front of the bike, take care to go under frame rails and avoid any location where the cable may become trapped.
3. You can now plug the GL2WAY connector into the motorcycle CB connector.
4. Locate and connect the 3 pin motorcycle power connection in the black rubber boot located behind the main relay cluster on the right hand side of the motorcycle (Fig 2).
5. At this time you can route any cables to your GPS or radar detector etc
6. If you do not need to install a new antenna or splitter you can now reassemble the top shelter and seat as per the manufacturers instructions.
7. Firmly plug the 16 way connector into the GL2WAY unit.
8. If not already done split the grommet and place it around the cables test fit it in the hole this will be a tight fit you will need to enlarge the center hole to suit the number of cables used on your particular installation.
9. Ensure the base of the trunk is clean and secure the GL2WAY unit in the CB well of the trunk using the fixing strips provided. The CB casing must not be directly grounded to the frame of the motorcycle.

CB Module

If you have purchased a CB module it will already be mounted to the top of the GL2WAY unit. If you have your own CB module then remove the protective film from the adhesive pad on top of the GL2WAY module and slide the tab on your CB module over the bolt on the end of the GL2WAY, make sure you are tight against the locknut before seating the CB onto the adhesive, secure the CB using the supplied nut and star washer. Make sure this connection is tight and the star washer bites into the CB. Make the antenna connection at this time, secure the units in the space reserved for the OEM CD player. The CB can be sited in the upper or lower position as you desire. Run the ground wire with the ring connection to the FM antenna ground strap single bolt on the floor of the trunk.

If the CD player is present the CB module will need to be relocated to the trunk sidewall or back wall, you will need an extended CB cable for this. Please contact us for this item.

WARNING Under no circumstances should the CB unit be operated without the correct antenna connected this will cause damage to the transmitter and will void the unit warranty.

Ferrite Filter

Place the included clip on ferrite filter around the CB antenna cable wrapping twice connection where it meets connection from the GL2WAY under the seat.

GPS Connection (if present)

The permanently attached 3.5 audio and optional 2.5 mm microphone connections are provided for use with a GPS. Please consult your GPS manual for the correct method of connection and use, a radar detector or similar can be used on this connection, please note this input is not entirely suitable for music as it mixes down the stereo audio to mono for the CB circuit although it will work.

Second Radio Connection (if present)

A connector or pair of connectors for your selected radio will be supplied, this connects to the 6 way connector on the GL2WAY unit and are sized to be long enough for you to locate your radio in the trunk. Please consult your radio manual for the correct method of connection and use, this connection integrates PTT and audio functions only, all other functions must be performed on the radio itself. If not used for a transceiver other audio devices may be attached but this is a mono only circuit. Stereo devices should not be connected as damage may occur to your device.

Using The GL2WAY System

The GL2WAY system basics are the same as the OEM CB please refer to the OEM motorcycle user manual for the basic use of the CB radio, please obey all warnings and advisories on the use of the system while riding.

The GL2WAY system has addition feature that the OEM unit does not have, audio from all connected devices will only be heard if CB is active on your audio system, audio from all inputs will be present at all times, however you will need to switch between CB and the second radio in order to transmit.

On turning the system on a short boot up sequence will begin this will be complete shortly after you hear the squelch open and close, the unit may not function correctly before this operation is complete.

1. GPS connection when used this will route the audio signals from a GPS or other device in a similar way to a CB radio transmission regardless of what other audio input is selected on the audio system, there are no settings or user inputs required for this function other than the CB circuit must be turned on and the volume on the GPS must be set to high.
2. To switch between the CB and a second radio 3 rapid presses of the PTT switch will toggle between each unit, a confirmation tone will be heard after each successful input, repeat the process to switch back. The CB is the master unit and on starting the motorcycle the unit will revert to the CB if present, PTT and VOLUME are the only controls active on radio two.

NOTE *Volume settings on the GPS and the SECOND RADIO must be set to a point where a clear sound is heard without any "Clipping" this level will vary dependant on your individual product.*

The Antenna & Splitter System

1. Unscrew the stock whip from the antenna mount and set aside, install the GL1800 adaptor onto the motorcycle stock mount then the Firestik whip.
2. Locate the antenna connector at the rear of the radio unit (Fig 5) and disconnect it, using the supplied adaptor cables connect the splitter unit to the radio and the incoming antenna cable, route the remaining cable to the CB transceiver, mount the splitter in the location shown (Fig 6).

DO NOT RUN ANTENNA CABLES ALONGSIDE HEADSET CABLES

SWR Antenna Tuning Get The most From Your System

Correct grounding & tuning of the antenna is critical to the efficient functionality of the system, damage may occur to the transceiver if this is not correct.

The correct grounding of the system is essential, poor transmission or the loss of the ability to gain a good SWR can be effected by poor grounding of the system components including the stock radio and antenna base, symptoms such as poor transmission distance and noise from the units are signs of a ground problem.

SWR is a measurement of how efficiently your antenna system will radiate the power available from your radio. In simple terms, your radio would like to radiate all of its power, but can only do so if the other components cooperate. Bad coax and mounts, or inefficient antennas and ground plane can cause system bottlenecks. The easiest way to understand the concept is to think of it in terms of water flow. That is, if you put a one inch faucet on a two inch pipe, your potential output will be restricted by the one inch outlet. So goes antenna systems.

If all radios only transmitted on one channel, it would be a much easier task to design antennas. As it is, on CB alone, there are 40 channels to contend with. Mobile antennas can only be made to resonate at one specific frequency (channel). The goal of the antenna manufacturers is to build the antenna to resonate at a frequency in the middle of the available band (channel 19 on CB) and make it broad- banded enough to keep the off-frequency related SWR at the two extreme ends of the band below 2.0:1. It should be noted that if you communicate on one or two adjacent channels anywhere within the band, you can tune your antenna to achieve optimum performance on those channels. Most people, however, prefer to use the entire bandwidth when tuning.

Tests have shown that even with the splitter in use that a SWR of 1.5:1 or better is achievable, we recommend that you may even wish to try removing the tuning screw or just the lock ring from the screw from the end of the Firefly antenna and checking the SWR reading always refit the rubber cap to the antenna before taking a SWR reading.

For optimal performance your antenna must be tuned correctly using a SWR meter connected directly after the CB transceiver, these are available from some electronic retailers and CB stores, please follow the instructions supplied with the unit, for more information and a guide on antenna tuning visit the Firestik website www.firestik.com/Tech_Docs/Setting_SWR.htm

For Advice On Antenna Installation Please Contact Firestik (602) 273-7151

Warranty

This system contains products from various manufacturers BikeMP3 only offers warranty on the GL2WAY system, although we are happy to handle warranty issues for you with HD/Midland and Firestik you may obtain faster service by contacting them directly.

FIG 1



FIG 2

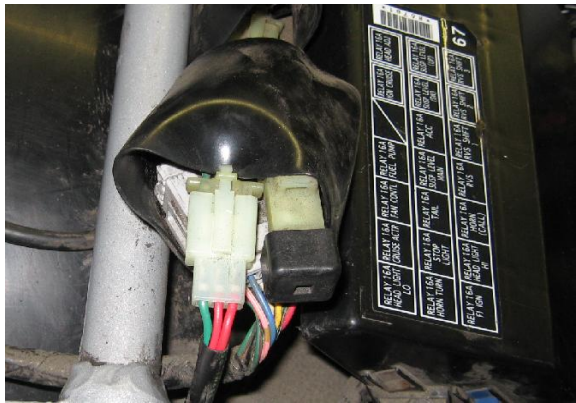


FIG 3



FIG 5

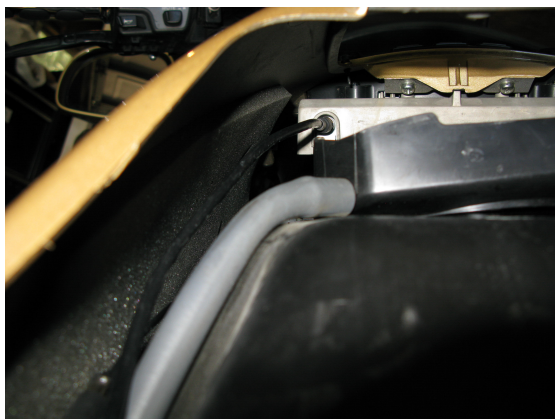


FIG 4

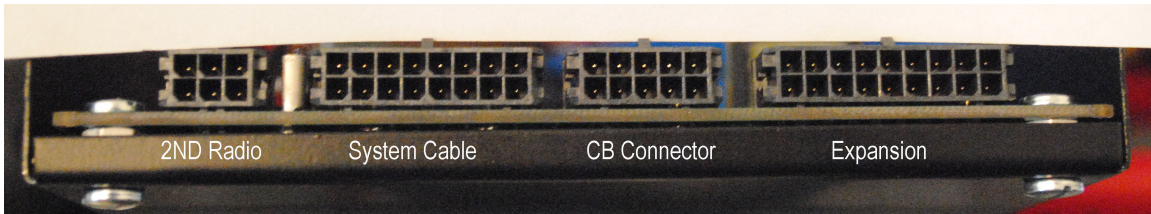


FIG 6